#### INTERNATIONAL SEARCH REPORT

International application No PCT/US2005/024374

A. CLASSIFICATION OF SUBJECT MATTER INV. H04L9/08	
1	
According to International Patent Classification (IPC) or to both national classification and IPC	С
B. FIELDS SEARCHED	
Minimum documentation searched (classification system followed by classification symbols) H04L	
Documentation searched other than minimum documentation to the extent that such docume	ents are included in the lields searched
Electronic data base consulted during the International search (name of data base and, whe	ore practical, search terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Category* Citation of document, with indication, where appropriate, of the relevant passag	ges Relevant to dalm No.
Y US 2004/103281 A1 (BRICKELL ERNIE F) 27 May 2004 (2004-05-27) cited in the application the whole document	1-35
MENEZES, VANSTONE, OORSCHOT: "Handbook Applied Cryptography" 1997, CRC PRESS LLC, USA, XP00239457 page 321 - page 322 page 330 - page 331 page 388 - page 390 page 394 - page 395 page 397 - page 398 page 472 page 515 - page 516 page 548 - page 552	
_/	
X Further documents are listed in the continuation of Box C. X See	e patent familiy annex.
"A" document defining the general state of the art which is not considered to be of particular relevance cited to considered to be of particular relevance cited to inventoon the property of	nt of particular relevance; the claimed invention be considered novel or cannot be considered to an inventive step when the document is taken alone int of particular relevance; the claimed invention be considered to involve an inventive step when the ent is combined with one or more other such docusuch combination being obvious to a person skilled int.
	malling of the international search report  3/09/2006
Name and malling address of the ISA/  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk	an Millán Maeso, J

### INTERNATIONAL SEARCH REPORT

International application No
PCT/US2005/024374

Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT  Category  Citation of document, with indication, where appropriate, of the relevant passages  Relevant to claim No.  A  US 6 032 260 A (SASMAZEL ET AL) 29 February 2000 (2000-02-29) abstract column 2 - column 3		and a base of the control of the con	PC170320037024374
A US 6 032 260 A (SASMAZEL ET AL) 29 February 2000 (2000-02-29) abstract column 2 - column 3	C(Continua	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	The state of the s
abstract column 2 - column 3	Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
		US 6 032 260 A (SASMAZEL ET AL) 29 February 2000 (2000-02-29) abstract column 2 - column 3	

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2005/024374

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004103281 A1	27-05-2004	AU 2003287567 A1 CN 1717895 A EP 1566011 A1 JP 2006508608 T WO 2004051923 A1	23-06-2004 04-01-2006 24-08-2005 09-03-2006 17-06-2004
US 6032260 A	29-02-2000	NONE	

### PATENT COOPERATION TREATY

INTE	ERNATIONAL SE	ARCHING AUTHORITY	-				
То	To:			PCT			
	see forn	1 PCT/ISA/220		INTERI	NATIONAL	OPINION OF SEARCHING Rule 43 <i>bis</i> .1)	THE AUTHORIT
				Date of mai	•	PCT/ISA/210 (second	I sheet)
	olicant's or agent's file of form PCT/ISA/			FOR FUR	RTHER ACTION 12 below	ON	
l	rnational application T/US2005/0243		al filing date <i>(a</i> 105	ı lay/month/year	1	rity date <i>(day/month/ye</i> 07.2004	ear)
Appl	mational Patent Cla  /. H04L9/08  licant  EL CORPORA	ssification (IPC) or both national	classification a	and IPC			
1.	This opinion c	ontains indications relating	g to the follo	wing items	•		
	☑ Box No. I	Basis of the opinion		-			
	☐ Box No. II	Priority					
	☐ Box No. III						
	Box No. IV	Non-establishment of opini	ion with regar	rd to novelty.	inventive step	and industrial appl	lcability
	Box No. V	Lack of unity of invention	<b>5</b>				
	23 BOX NO. V	Reasoned statement under applicability; citations and e	r Rule 43 <i>bis.</i> : explanations :	1(a)(i) with re supporting s	egard to novelty uch statement	y, inventive step or	industrial
	☐ Box No. VI	Certain documents cited		113 -		•	
	☐ Box No. VII	Certain defects in the interr	national appli	cation			
	☐ Box No. VIII	Certain observations on the					
2.	FURTHER ACT						
	the applicant che	nternational preliminary exant the International Preliminary poses an Authority other than reau under Rule 66.1 bis(b) the risidered.	y Examining /	Authority ("II	'EA") except th	nat this does not ap	1
	SUDMIT TO THE ILE	as provided above, consider EA a written reply together, w mailing of Form PCT/ISA/220 es later.	nere annronr	lata with an	andmonte hat	fora tha avaiuation a	.f 0
	For further option	ns, see Form PCT/ISA/220.					
3.	For further details	s, see notes to Form PCT/IS/	<b>4/2</b> 20.				
Vame	and mailing addres	s of the ISA:	Date of com this opinion	pletion of	Authorized Offi	icer	Miches Pelantan,
	European F D-10958 Be Tel. +49 30		see form PCT/ISA/210	)	SAN MILLA	N MAESO, J	
		25901 - 840			Telephone No	+49 30 25901-477	The Age

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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/024374

Pay No. 1. Pagie of the anining				
Box No. I Basis of the opinion				
1. With regard to the language, this opinion has been established on the basis of:				
a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).				
<ol><li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</li></ol>				
a. type of material:				
□ a sequence listing				
☐ table(s) related to the sequence listing				
b. format of material:				
□ on paper				
□ in electronic form				
c. time of filing/furnishing:				
contained in the international application as filed.				
filed together with the international application in electronic form.				
furnished subsequently to this Authority for the purposes of search.				
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4. Additional comments:				

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/024374

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-35

No:

Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-35

Industrial applicability (IA)

Yes: Claims

1-35

No: Claims

2. Citations and explanations

see separate sheet

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1. Reference is made to the following documents:
  - D1: MENEZES, VANSTONE, OORSCHOT: "Handbook of Applied Cryptography" 1997, CRC PRESS LLC, USA, XP002394577
  - D2: US 2004/103281 A1 (BRICKELL ERNIE F) 27 May 2004 (2004-05-27) cited in the application
- 2. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-35 does not involve an inventive step in the sense of Article 33(3) PCT.
- 2.1. Independent claim 1
- 2.1.1. D1 consists of citations from the "Handbook of Applied Cryptography" which is a well-known textbook in the field of cryptography and discloses:
- (pages 548-551) establishing a protected on-line server to support key retrieval request from client computer systems;
- generating a key service public/private key pair for use in secure key retrieval processing;
- (pages 331 and 398) generating a pseudo-random value for a device;
- (pages 321, 322, 330 and 472) generating an encrypted data structure associated with a device, the encrypted data structure comprising a private key;
- (pages 397 and 398) generating an identifier, based on the pseudo-random value, for the encrypted data structure;
- (page 472) storing the identifier and the encrypted data structure on the protected online server; and
- (pages 397 and 398) storing the pseudo-random value and a hash value of the key service public key into non-volatile storage within the device.
- 2.1.2. Thus independent claim 1 cannot be considered as involving an inventive step because

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

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it would be obvious (see PCT International Search and Examination Guidelines, Chapter 13, Paragraph 13.13) for the skilled man to combine the technical features of D1 together and other well-known technical features and/or design options in order to arrive at the subject-matter of claim 1.

2.2. Independent claims 9, 17, 28 and 34

The same reasoning applies, mutatis mutandis, to the subject-matter of the corresponding independent claims 9, 17, 28 and 34, which therefore are also considered not inventive.

2.3. Dependent claims 2-8, 10-16, 18-27, 29-33 and 35

The features included in the above-mentioned dependent claims as far as they are not disclosed by D1 and/or D2 correspond to design options or are well-known in the field of Cryptography. It would therefore be obvious (see PCT International Search and Examination Guidelines, Chapter 13, Paragraph 13.13) for the skilled man to combine the teachings of D1 and D2 in order to arrive at the subject-matter of the dependent claims.

Therefore the subject-matter of claims 1-35 is not considered inventive in the sense of Article 33(3) PCT.

3. It is not at present apparent which part of the application could serve as a basis for a new, allowable claim.